

Top three priorities for modeling in Puget Sound

Priorities	Why is it important?	What is the approximate cost?
<u>Model Data Services</u> . Funding for outreach to get new modeling information into the hands of scientists around the region from existing, large-scale Puget Sound models (PSGB; MoSSea).	<p>Current project-funding does not support any outreach to other state and federal agencies, local govts and tribes to provide modeling data to their projects.</p> <p>Critical information from models includes current patterns and speeds, stratification, mixing, oxygen and nutrient conditions, tributary inputs, and sea surface level.</p> <p>Models fill in the gaps in locations that are not monitored.</p>	<p>\$100,000 per year</p> <p>(\$50,000 per model)</p>
<u>Model Maintenance</u> : Maintain priority large-scale Puget Sound models (PSGB; MoSSea), including maintenance of computer systems; Model code updates and corrections	<p>Past project funds have enabled construction of these models but there is no long term maintenance funding.</p> <p>Models will only be available for future projects or data services if they are maintained over long term.</p>	<p>\$160,000 per year</p> <p>(\$80,000 per model)</p>
<u>Model Development</u> : Ongoing priority improvements to the PSGB and MosSSea models	<p>Similar to maintenance issue above, there is no funding available to improve the models, even when warranted by new information or error identification is a fundamental activity for a model in active use.</p> <p>Currently, there is a specific need for better predictions from the PSGB model for DO/nutrients in shallow embayments.</p>	<p>\$200,000 per year</p> <p>(\$100,000 per model)</p>